



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicant(s) : Affinito et al.  
Serial No. : 10/603,874  
Filed : June 25, 2003  
Title : **METHOD OF MAKING MOLECULARLY DOPED COMPOSITE  
POLYMER MATERIAL**  
Docket : BAT 0019 VA/40078.228/B-1446 DIV

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

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Patents, P. O. Box 1450, Alexandria, VA 22313-1450 September 11, 2003.

*Patricia L. Prior*

Patricia L. Prior - Attorney

Reg. No. 33,758

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UNDER 37 CFR §§ 1.56, 1.97, AND 1.98

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 CFR §1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 CFR §1.97(h), constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. Further, pursuant to 37 CFR §1.97(g), the filing of this Statement should not be construed as a statement that a search has been made or that no other material information exists.

Serial No. 10/603,874  
Docket BAT 0019 VA/40078.228/B-1446-DIV

This Information Disclosure Statement is being filed within the period set forth in 37 CFR §1.97(b) because it is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in 37 CFR §1.491 in an international application.

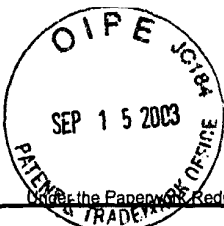
The above application is a division of U.S. Application Serial No. 09/835,505 filed April 16, 2001 now U.S. Patent No. 6,613,395 issued September 2, 2003. Pursuant to §1.98(d), copies of those items cited by or submitted to the Office in the prior application are not being submitted, but are listed on PTO/SB/08a, a substitute for form 1449A/PTO.

Respectfully submitted,  
DINSMORE & SHOHL LLP

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Sheet

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of

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First Named Inventor	John D. Affinito
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Examiner Name	
Attorney Docket Number	BAT 0019 VA/40078.228

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3,475,307 A	10/28/1969	Knox et al.	
		US- 3,607,305 A	09/21/1971	Lindlof	
		US- 4,098,965 A	07/04/1978	Kinsman	
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		US- 5,536,323 A	07/16/1996	Kirlin et al.	

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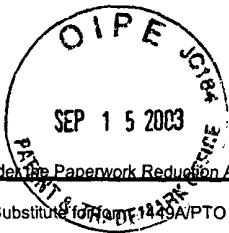
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		BE 704 297	02/01/1968	Continental Oil		
		DE 19603746	04/24/1997	Bosch GmbH Robert		
		EP 0 299 753	01/18/1989	The BOC Group, Inc.		
		EP 0 340 935	11/08/1989	Spectrum Control, Inc.		
		EP 0 390 540	10/03/1990	Sharp Kabushiki Kaisha		

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		US- 5,547,508 A	08/20/1996	Affinito	
		US- 5,554,220 A	09/10/1996	Forrest et al.	
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		US- 5,607,789 A	03/04/1997	Treger et al.	
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		US- 5,693,956 A	12/02/1997	Shi et al.	
		US- 5,711,816 A	01/27/1998	Kirlin et al.	
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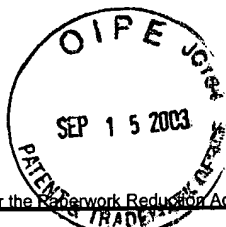
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 0 722 787	07/24/1996	Catalina Coatings, Inc.		
		EP 0 787 826	08/06/1997	Becton Dickinson		
		EP 0 916 394	05/19/1999	Sharp Kabushiki Kaisha		
		EP 0 931 850	07/28/1999	Leybold Systems GmbH		
		EP 0 977 469	02/02/2000	Hewlett-Packard		

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Sheet 3 of 7

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,757,126 A	05/26/1998	Harvey, III et al.	
		US- 5,759,329 A	06/02/1998	Krause et al.	
		US- 5,792,550A	08/11/1998	Phillips et al.	
		US- 5,811,177 A	09/22/1998	Shi et al.	
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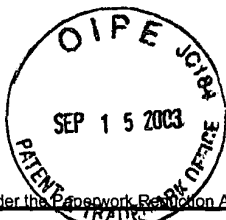
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP 63136316	06/08/1988	Hitachi Ltd.		
		JP 64-18441	01/23/1989	Yoshida et al.		
		JP 2-183230	07/17/1990	Akagi et al.		
		JP 08325713	12/10/1996	Matsushita Electric		
		JP 09059763	03/04/1997	Matsushita Electric		

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		US- 5,968,620 A	10/19/1999	Harvey et al.	
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**FOREIGN PATENT DOCUMENTS**

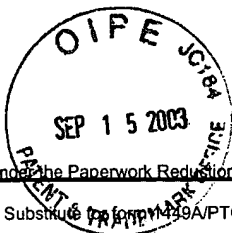
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		WO 87 07848	12/30/1987	Spectrum Control, Inc.		
		WO 95 10117	04/13/1995	Catalina Coatings, Inc.		
		WO 97 04885	02/13/1997	Battelle Memorial		
		WO 97/22631	06/26/1997	Talison Research		
		WO 98 10116	03/12/1998	Talison Research		

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		WO 98 18852	05/07/1998	Catalina Coatings, Inc.		
		WO 99 16557	04/08/1999	Battelle Memorial		
		WO 99 16931	04/08/1999	Battelle Memorial		

Examiner  
Signature

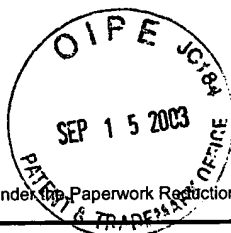
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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### Complete if Known

Application Number	10/603,874
Filing Date	June 25, 2003
First Named Inventor	John D. Affinito
Art Unit	
Examiner Name	
Attorney Docket Number	BAT 0019 VA/40078.228

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		AFFINITO, J.D. ET AL., "High Rate Vacuum Deposition of Polymer Electrolytes," Journal Vacuum Science Technology A 14(3), May/Jun. 1996	
		INOUE ET AL., Fabrication of a Thin Film of MNA by Vapour Deposition, Proc. Jpn. Congr. Mater. Res., vol. 33, p. 177-9, 1990	
		AFFINITO, J.D. ET AL., "PML/Oxide/PML Barrier Layer Performance Differences Arising From Use of UV or Electron Beam Polymerization of the PML Layers," Thin Solid Films, Elsevier Science S.A., vol. 308-309, Oct. 31, 1997, pp. 19-25	
		GUSTAFSSON, G. ET AL., "Flexible light-emitting diodes made from soluble conducting polymers," Nature, vol. 357, Jun. 11, 1992, pp.447-479	
		AFFINITO, J.D. ET AL., "Polymer-Oxide Transparent Barrier Layers," SVC 39th Annual Technical Conference, Vacuum Web Coating Session, 1996, pp. 392-397	
		AFFINITO, J.D. ET AL., "PML/Oxide/PML Barrier Layer Performance Differences Arising From Use of UV or Electron Beam Polymerization of the PML Layers," SVC 40th Annual Technical Conference, 1997, pp. 19-25	
		WONG, C.P., "Recent Advances in IC Passivation and Encapsulation: Process Techniques and Materials," Polymers for Electronic and Photonic Applications, AT&T Bell Laboratories, 1993, pp. 167-209	
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		TROPSHA ET AL., "Combinatorial Barrier Effect of the Multilayer SiO <sub>x</sub> Coatings on Polymer Substrates," 1997 Society of Vacuum Coaters, 40th Annual Technical Conference Proceedings.	
		PHILLIPS ET AL., "Evaporated Dielectric Colorless Films on PET and OPP Exhibiting High Barriers Toward Moisture and Oxygen," Society of Vacuum Coaters, 36th Annual Technical Conference Proceedings (1993), pp. 293-300	

Examiner  
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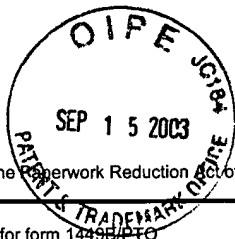
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		CHAHROUDI, "Transparent Glass Barrier Coatings for Flexible Film Packaging," Society of Vacuum Coaters, 34th Annual Technical Conference Proceedings (1991), pp. 130-133	
		YAMADA ET AL., "The Properties of a New Transparent and Colorless Barrier Film," Society of Vacuum Coaters, 38th Annual Technical Conference Proceedings (1995), pp. 28-31	
		SHI, M.K. ET AL., Plasma treatment of PET and acrylic coating surfaces-I. In situ XPS measurements, Journal of Adhesion Science and Technology, Mar. 2000, 14(12), pp. 1-28	
		SHI, M.K. ET AL. In situ and real-time monitoring of plasma-induced etching PET and acrylic films, Plasmas and Polymers, Dec. 1999, 4(4), pp. 1-25	
		AFFINITO, J.D. ET AL., Vacuum Deposited Conductive Polymer Films, The Eleventh International Conference on Vacuum Web Coating, no earlier than Feb. 1998, pp. 200-213	
		MAHON, J.K. ET AL., Requirements of Flexible Substrates for Organic Light Emitting Devices in Flat Panel Display Applications, Society of Vacuum Coaters, 42nd Annual Technical Conference Proceedings, 1999, pp. 456-459	
		AFFINITO, J.D. ET AL., "Molecularly Doped Polymer Composite Films for Light Emitting Polymer Applications Fabricated by the PML Process" 1998 Society of Vacuum Coaters, 41st Annual Technical Conference Proceedings (1998), pp. 220-225	
		AFFINITO, J.D. ET AL., "Vacuum Deposition of Polymer Electrolytes on Flexible Substrates," "Proceedings of the Ninth International Conference on Vacuum Web Coating," Nov. 1995 ed R. Bakish, Bakish Press 1995, p. 20-26	
		VOSSEN, J.L. ET AL., Thin Film Processes, Academic Press, 1978, Part II, Chapter 11-1, Glow Discharge Sputter Deposition, p. 12-63; Part IV, Chapter IV-1, Plasma Deposition of Inorganic Compounds and Chapter IV-2 Glow Discharge Polymerization, p. 335-397	
		PENNING, F.M., Electrical Discharges in Gases, Gordon and Breach Science Publishers, 1965, Chapters 5-6, p. 19-35, and Chapter 8, p. 41-50	

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